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This document contains a list of open source software (OSS) components used within the product under the terms of the respective licenses. The source code corresponding to the open source components is also provided along with the product wherever mandated by the respective OSS license

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ACL	2.2.5 2,2.2 .53	GNU Lesser General Public License v2.1 or later	<a href="https://savannah.nongnu.org/projects/acl">https://savannah.nongnu.org/projects/acl</a>	(C) 1999, 2000 Andreas Gruenbacher Copyright (C) 1999,2000,2002,2003,2007,2011 Andreas Gruenbacher Copyright (C) 2001-2002 Silicon Graphics, Inc Copyright (C) SuSE Linux AG Copyright (c) 2007, 2008 Andreas Gruenbacher.  Copyright (c) 2003-2006 Silicon Graphics, Inc.  Copyright (C) 2012 Free Software Foundation, Inc.
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RPCBind	0.2.3	BSD 3-clause "New" or "Revised" License	<a href="http://sourceforge.net/projects/rpcbind/">http://sourceforge.net/projects/rpcbind/</a>	Copyright:Copyright (c) 2009, Sun Microsystems, Inc. Copyright (c) 2000 The NetBSD Foundation, Inc,All rights reserved.;
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Rygel - DLNA Media Server	0.30.1	GNU Lesser General Public License v2.1 or later	<a href="https://wiki.gnome.org/Projects/Rygel">https://wiki.gnome.org/Projects/Rygel</a>	Copyright:Copyright (C) 2012,2013 Intel Corporation, Copyright (C) 2008,2009 Zeeshan Ali, Copyright (C) 2013 Cable Television, Copyright (C) 2011,2014,2016 Jens Georg, Copyright (C) 2008,2009,2010 Nokia Corporation, Copyright (C) 2012 Openismus GmbH, Copyright (C) 2013 Cable Television, Inc. Copyright (C) 2014 Atlantic PuffinPack, Copyright (C) 2007 OpenedHand Ltd, Copyright (C) 2011 Red Hat, Copyright (C) 2010 Andreas Henriksson.;
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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### PCRE 5 LICENCE

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Written by: Philip Hazel {ph10@cam.ac.uk}

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### **3.1.36 Android - platform - prebuilts – sdk - 4.4\_r1**

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### **3.1.37 Android SDK Support Libraries – 19,23.1.1**

Home Page: <https://developer.android.com/tools/support-library/index.html>

License: Apache License 2.0

### **3.1.38 Android SDK Support Libraries**

Drools:: Scorecards - 5.5.0.Final

Home Page : <http://mirrors.ibiblio.org/maven2/org/drools/drools-scorecards/>

License: Apache License 2.0

### **3.1.39 Mongolduu - master-20121109**

Home Page: <http://github.com/tugstugi/mongolduu/>

License: Apache License 2.0

### **3.1.40 Stan-for-Android - 0.1.0**

Home Page: <http://github.com/Label305/Stan-for-Android/>

License: Apache License 2.0

### **3.1.41 doT - 1.0.1**

Home Page: <http://github.com/olado/doT/>

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### **3.1.42 JQuery: 2.0.3**

Home Page: <http://github.com/jquery/jquery/>

License: MIT License

### **3.1.43 jquery\_mobile\_rails - 1.3.2**

Home Page: [http://rubygems.org/gems/jquery\\_mobile\\_rails](http://rubygems.org/gems/jquery_mobile_rails)

License: MIT License

### **3.1.44 SafeSlinger-Android - 1.8.3-messenger**

Home Page: <http://github.com/SafeSlingerProject/SafeSlinger-Android/>

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### **3.1.45 OpenSSL**

Home Page: <http://www.openssl.org/>

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### **3.1.46 CRC32**

Home Page: <http://web.mit.edu/>

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### **3.1.47 SHA-1 in C**


Home Page: <http://www.mirrors.wiretapped.net/security/cryptography/ hashes/sha1>

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### **3.1.48 SyncML C Toolkit - 4.0.3**

Home Page: <http://sourceforge.net/projects/syncml-ctoolkit/>

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### **3.1.49 CMarkup - 11.05**

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### **3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition**

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### **3.1.51 LZO real-time data compression library - 2.04**

Home Page <http://www.oberhumer.com/opensource/lzo/>

License: Acquired commercial license

### **3.1.52 UCL Data Compression Library - 1.03**

Home Page: <http://www.oberhumer.com/opensource/ucl/>

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### **3.1.53 Android - platform - bootable – recovery - 4.0.1\_r1**

Home Page: <http://developer.android.com/index.html>

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### **3.1.54 Android - platform - bootable – recovery - 5.0.0\_r1**

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### **3.1.55 Android - platform - bootable – recovery - 2.3\_r1**

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### **3.1.56 Android - platform - system – core - 4.2**

Home Page: <http://developer.android.com/index.html>

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### **3.1.57 File system in Userspace - 2.8.7**

Home Page: <http://sourceforge.net/projects/fuse/>

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### **3.1.58 lz4 Compression algorithm - r111**

Home Page: <http://code.google.com/p/lz4/>  
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### **3.1.59 Android -platform - system - core/libmincrypt**

Home Page: <https://android.googlesource.com/platform/system/core/+master/libmincrypt>  
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### **3.1.60 lucy search engine – lucy - 0.6.0**

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### **3.1.61 NetBSD - 1.4**

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### **3.1.62 Open BSD - 4.5**

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### **3.1.63 Bsdiff - 4.3**

Home Page: <http://github.com/geraldonetto/bsdiff/>  
Home Page: <http://www.daemonology.net/bsdiff/>  
License: BSDiff license

### **3.1.64 GNU C Library – glibc - 2.2.4**

Home Page: <http://www.gnu.org/software/libc/libc.html>  
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### **3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0**

Home Page: <http://www.igep.es/>  
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### **3.1.66 squashfs - a compressed fs for Linux - squashfs4.3**

Home Page: <http://sourceforge.net/projects/squashfs/>  
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Home Page: <http://code.google.com/p/libdivsufsort/>

License: MIT License

### **3.1.69 Test-SQLite-blob - trunk-20120916-svn**

Home Page: <http://code.google.com/p/test-sqlite-blob/>

License: MIT License

### **3.1.70 7 Zip - LZMA SDK - 9.2**

Home Page: <http://www.7-zip.org/sdk.html>

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### **3.1.71 7-Zip - 7-Zip -3.11**

Home Page: <http://sourceforge.net/projects/sevenzip/>

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### **3.1.72 CRC32 MIT.edu**

Home Page: <http://web.mit.edu/freebsd/head/sys/libkern/>

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### **3.1.73 XZ Utils -5.0.7**

Home Page: <http://tukaani.org/xz/>

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### **3.1.74 Zlib - 1.2.3**

Home Page <http://www.zlib.net>

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### **3.1.75 Android - platform – dalvik - 2.1\_r1**

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### **3.1.76 gpclib**

<http://github.com/rdpeng/gpclib/>

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### **3.1.77 Anti-Grain Geometry**

Version Unspecified

<http://sourceforge.net/projects/vector-agg/>

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### **3.1.78 Android - platform - frameworks - base**

Version android-7.0.0\_r1

<https://android.googlesource.com/platform/frameworks/base>

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### 3.1.79 Android - platform - frameworks - base

Version Unspecified

<https://android.googlesource.com/platform/frameworks/base>

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### 3.1.80 Boost C++ Libraries - boost

Version Unspecified

<http://boost.org/>

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### 3.1.81 gecko-dev

Unspecified

<http://github.com/mozilla/gecko-dev/>

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### **3.1.83 Opus**

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<http://opus-codec.org>

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### **3.1.84 Speex**

1.2beta2 dev

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### **3.1.85 wosh**

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<http://code.google.com/p/wosh/>

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### **3.1.86 jsoncpp**

Version

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**Version**

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### **3.1.88 pugixml**

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Version Unspecified

<http://www.sqlite.org/>

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### **3.1.90 Sunrise/set calculator**


Version Unspecified

<https://stjarnhimlen.se/comp/sunriset.c>

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### **3.1.91 tiny-AES128-C**

Version master-20141218

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<http://github.com/kokke/tiny-AES128-C/>

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### **3.1.92 PVRTC Library**

Version Unspecified

<https://www.imgtec.com/developers/powervr-sdk-tools/installers/>

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### **3.1.93 GSM 06.10 Lossy Speech Compression**

Version Unspecified

<http://kbs.cs.tu-berlin.de/~jutta/toast.html>

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<https://github.com/timothytylee/libgsm/blob/master/COPYRIGHT>

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Berlin, 28.11.1994 Jutta Degener Carsten Bormann

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Version Unspecified

<http://github.com/curl/curl/>

Copyright (C) 1998 - 2011, Daniel Stenberg, <daniel@haxx.se>, et al.

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### **3.1.95 aladdin-md5**

Version Unspecified

<https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html>

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### **3.1.96 OpenGL-Examples**

Version master-20141123

<http://github.com/progschj/OpenGL-Examples/>

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### **3.1.97 SDL**

Version 2.0

<http://www.libsdl.org/index.php>

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Version Unspecified

<http://sourceforge.net/projects/sdlgfx/>

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### **3.1.96.2 zlib**

Version 1.2.11 <http://www.zlib.net/>

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### **3.1.98pkgconf**

Version Unspecified

<http://github.com/pkgconf/pkgconf/>

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

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### **3.1.99 Code Project - C++ Memory Pool**

Version 1.0

<http://www.codeproject.com/KB/cpp/MemoryPool.aspx>

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RealVNC has made the following modifications to OpenSSL 0.9.8zf:

- The hard-coding of config options in opensslconf.h.
- The addition of compile-time
- 
- 
- s to remove dependencies of the C stio library and on Win32 UI.
- The addition of compile-time checks to remove filename strings from release binaries.

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#### **3.2.10.4 RealVNC modifications to libzip**

The open source component used by *VNC Automotive* consists of the lib subdirectory of libzip 0.9, plus two variants on the corresponding config.h template. Three modifications have been made, as follows:

- libzip.vcproj has been added.
- On Windows, in libzip.h and zipint.h, no-op ZIP\_EXTERN so that we build for linking statically.
- On Windows, in mkstemp.c, pid\_t and S\_ISDIR have been defined, and io.h and process.h included.

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### **3.2.13 GCC libstdc++**

This is not in our source delivery, but is statically linked in to our binary deliveries from the specified version of GCC. See <http://gcc.gnu.org/libstdc++> or <http://gcc.gnu.org/releases.html> for more information.

### **3.2.14 keysymdef**

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#### **3.2.19.2 hash.c**

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#### **3.2.19.5 RealVNC modifications to libxml2**

This is libxml2-2.9.1. Some small changes have been made to allow it to build for QNX and Android.

#### **3.2.20 miniupnp**

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Project web page: <http://miniupnp.free.fre/> or <http://miniupnp.tuxfamily.org/>

Author: Thomas Bernard

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### 3.2.20.3 RealVNC modifications to

**miniupnpc** The following modifications

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- Requests have been cancelled.
- MirrorLink-specific functionality has been added.
- Functionality specific to building for different hardware architectures has been added.

### **3.2.21 LibTomCrypt**

LibTomCrypt, modular cryptographic library -- Tom St Denis

LibTomCrypt is a library that provides various cryptographic algorithms in a highly modular and flexible manner.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://libtomcrypt.com>

### **3.2.22 LibTomMath**

LibTomMath, multiple-precision integer library -- Tom St Denis

LibTomMath is a library that provides multiple-precision integer arithmetic as well as number theoretic functionality.

The library was designed directly after the MPI library by Michael Fromberger but has been written from scratch with additional optimizations in place.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://math.libtomcrypt.com>

### **3.2.23 Base64.java**

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Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

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### **3.2.28.1 RealVNC modifications to WPA Supplicant**

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<http://w1.fi/cgit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408>

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### **3.2.28.2 ath9k\_faf1dc64\_backport.patch**

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### **3.2.28.3 python-psutil\_2.1.3.bb**

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### 3.2.30 VNC Wi-Fi Display i.MX6 sample decoder

The information in this section expands upon that summarized in section 6.2, *VNC Wi-Fi Display i.MX6 sample decoder*.

#### 3.2.31 mxcfb.h

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#### 3.2.32 axTLS

axTLS Embedded SSL

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2005.2., Cameron Rich All

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### **3.2.32 RealVNC modifications to axTLS**

Some unwanted type and function definitions have been removed.


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## 4.0 Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	<a href="https://github.com/brianloveswords/buffer-crc32">https://github.com/brianloveswords/buffer-crc32</a>
dbus-native	0.2.0	MIT	<a href="https://github.com/sidorares/node-dbus">https://github.com/sidorares/node-dbus</a>
dbus-proxy	0.0.0-unreleasable	NA	NA
abstract-socket	1.1.0	MIT	<a href="https://github.com/saghul/node-abstractsocket">https://github.com/saghul/node-abstractsocket</a>
bindings	1.2.1	MIT	<a href="https://github.com/TooTallNate/node-bindings">https://github.com/TooTallNate/node-bindings</a>
nan	2.4.0	MIT	<a href="https://github.com/nodejs/nan#readme">https://github.com/nodejs/nan#readme</a>
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	<a href="http://github.com/dominictarr/event-stream">http://github.com/dominictarr/event-stream</a>
duplexer	0.1.1	MIT	<a href="https://github.com/Raynos/duplexer">https://github.com/Raynos/duplexer</a>
from	0.1.3	MIT	<a href="https://github.com/dominictarr/from">https://github.com/dominictarr/from</a>
map-stream	0.1.0	NA	<a href="http://github.com/dominictarr/map-stream">http://github.com/dominictarr/map-stream</a>
pause-stream	0.0.11	MIT, Apache2	<a href="https://github.com/dominictarr/pause-stream">https://github.com/dominictarr/pause-stream</a>
split	0.3.3	MIT	<a href="http://github.com/dominictarr/split">http://github.com/dominictarr/split</a>
stream-combiner	0.0.4	MIT	<a href="https://github.com/dominictarr/stream-combiner">https://github.com/dominictarr/stream-combiner</a>
through	2.3.8	MIT	<a href="https://github.com/dominictarr/through">https://github.com/dominictarr/through</a>
put	0.0.6	MIT/X11	<a href="https://github.com/substack/node-put">https://github.com/substack/node-put</a>
xml2js	0.1.14	NA	<a href="https://github.com/Leonidas-from-XIV/node-xml2js">https://github.com/Leonidas-from-XIV/node-xml2js</a>
sax	1.2.1	ISC	<a href="https://github.com/isaacs/sax-js#readme">https://github.com/isaacs/sax-js#readme</a>
iconv-lite	0.4.15	MIT	<a href="https://github.com/ashtuchkin/iconv-lite">https://github.com/ashtuchkin/iconv-lite</a>
jbinary	2.1.2	MIT	<a href="https://github.com/jDataView/jBinary">https://github.com/jDataView/jBinary</a>

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es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	<a href="https://github.com/jakearchibald/ES6-Promises">https://github.com/jakearchibald/ES6-Promises</a>
jdataview	2.5.0	WTFPL	<a href="http://jDataView.github.io/">http://jDataView.github.io/</a>
request	2.53.0	Apache-2.0	<a href="https://github.com/request/request">https://github.com/request/request</a>
aws-sign2	0.5.0	NA	<a href="https://github.com/mikeal/aws-sign">https://github.com/mikeal/aws-sign</a>
bl	0.9.4	MIT	<a href="https://github.com/rvagg/bl">https://github.com/rvagg/bl</a>
readable-stream	1.0.33	MIT	<a href="https://github.com/isaacs/readable-stream">https://github.com/isaacs/readable-stream</a>
core-util-is	1.0.1	MIT	<a href="https://github.com/isaacs/core-util-is">https://github.com/isaacs/core-util-is</a>
inherits	2.0.1	ISC	<a href="https://github.com/isaacs/inherits">https://github.com/isaacs/inherits</a>
isarray	0.0.1	MIT	<a href="https://github.com/juliangruber/isarray">https://github.com/juliangruber/isarray</a>
string_decoder	0.10.31	MIT	<a href="https://github.com/rvagg/string_decoder">https://github.com/rvagg/string_decoder</a>
caseless	0.9.0	BSD	<a href="https://github.com/mikeal/caseless">https://github.com/mikeal/caseless</a>
combined-stream	0.0.7	NA	<a href="https://github.com/felixge/node-combined-stream">https://github.com/felixge/node-combined-stream</a>
delayed-stream	0.0.5	NA	<a href="https://github.com/felixge/node-delayed-stream">https://github.com/felixge/node-delayed-stream</a>
forever-agent	0.5.2	NA	<a href="https://github.com/mikeal/forever-agent">https://github.com/mikeal/forever-agent</a>
form-data	0.2.0	MIT	<a href="https://github.com/felixge/node-form-data">https://github.com/felixge/node-form-data</a>
async	0.9.0	MIT	<a href="https://github.com/caolan/async">https://github.com/caolan/async</a>
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	<a href="https://github.com/hueniverse/hawk">https://github.com/hueniverse/hawk</a>
boom	2.6.1	BSD	<a href="https://github.com/hapijs/boom">https://github.com/hapijs/boom</a>
cryptiles	2.0.4	BSD	<a href="https://github.com/hapijs/cryptiles">https://github.com/hapijs/cryptiles</a>
hoek	2.11.0	BSD	<a href="https://github.com/hapijs/hoek">https://github.com/hapijs/hoek</a>
sntp	1.0.9	BSD	<a href="https://github.com/hueniverse/sntp">https://github.com/hueniverse/sntp</a>
http-signature	0.10.1	MIT	<a href="https://github.com/joyent/node-http-signature/">https://github.com/joyent/node-http-signature/</a>
asn1	0.1.11	NA	NA
assert-plus	0.1.5	NA	<a href="https://github.com/mcavage/node-assert-plus">https://github.com/mcavage/node-assert-plus</a>
ctype	0.5.3	NA	<a href="https://github.com/rmustacc/node-ctype">https://github.com/rmustacc/node-ctype</a>
isstream	0.1.1	MIT	<a href="https://github.com/rvagg/isstream">https://github.com/rvagg/isstream</a>
json-stringify-safe	5.0.0	BSD	<a href="https://github.com/isaacs/json-stringify-safe">https://github.com/isaacs/json-stringify-safe</a>
mime-types	2.0.9	MIT	<a href="https://github.com/jshttp/mime-types">https://github.com/jshttp/mime-types</a>

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mime-db	1.7.0	MIT	<a href="https://github.com/jshttp/mime-db">https://github.com/jshttp/mime-db</a>
node-uuid	1.4.2	MIT	<a href="https://github.com/broofa/node-uuid">https://github.com/broofa/node-uuid</a>
oauth-sign	0.6.0	NA	<a href="https://github.com/mikeal/oauth-sign">https://github.com/mikeal/oauth-sign</a>
qs	2.3.3	BSD	<a href="https://github.com/hapijs/qs">https://github.com/hapijs/qs</a>
stringstream	0.0.4	MIT	<a href="https://github.com/mhart/StringStream">https://github.com/mhart/StringStream</a>
tough-cookie	0.12.1	MIT	<a href="https://github.com/goinstant/tough-cookie">https://github.com/goinstant/tough-cookie</a>
punycode	1.3.2	MIT	<a href="https://mths.be/punycode">https://mths.be/punycode</a>
tunnel-agent	0.4.0	NA	<a href="https://github.com/mikeal/tunnel-agent">https://github.com/mikeal/tunnel-agent</a>
mkdirp	0.5.0	MIT	<a href="https://github.com/substack/node-mkdirp">https://github.com/substack/node-mkdirp</a>
minimist	0.0.8	MIT	<a href="https://github.com/substack/minimist">https://github.com/substack/minimist</a>
xml2js	0.4.5	MIT	<a href="https://github.com/Leonidas-from-XIV/node-xml2js">https://github.com/Leonidas-from-XIV/node-xml2js</a>
sax	0.6.1	BSD	<a href="https://github.com/isaacs/sax-js">https://github.com/isaacs/sax-js</a>
xmlbuilder	2.5.1	MIT	<a href="http://github.com/oozcitak/xmlbuilder-js">http://github.com/oozcitak/xmlbuilder-js</a>
lodash	3.1.0	MIT	<a href="https://lodash.com/">https://lodash.com/</a>